



Product Data Sheet

HYPAX GEAR OIL

AUTOMOTIVE GEAR OIL

May 2001

Hypax 80W-90 is a sulphur-phosphorus, petroleum based, gear oil, designed to protect automotive gears operating in severe applications. It meets the requirements of API Service designation GL-5/MT1 and MIL-PRF-2105E.

In service **Hypax** offers the following benefits:

- ◆ Outstanding thermal stability for cleanliness and longer service life
- ◆ Protection for gear teeth against pitting, spalling and scoring
- ◆ Non-corrosive towards copper alloy components
- ◆ Compatible with conventional elastomer materials
- ◆ Meets service fill requirements for limited slip differentials

Product Applications

Hypax 80W-90 gear oil is a multi-service, non-corrosive type hypoid gear lubricant suitable for the lubrication of gears, particularly hypoid gears, in passenger cars, trucks and other equipment operating under high speed, shock load; high speed, low torque; and low speed, high torque conditions.

Hypax 80W-90 meets the manufacturer's recommendation for most manual transmissions, reducers, differentials, and final drives used in passenger cars, trucks, construction equipment, farm tractors and industrial equipment requiring API GL-5 performance level. Where the builders specify a heavy-duty engine oil or a non-EP mineral gear oil, **Tranguard 40/50** should be used.

Hypax 80W-90 is also suitable for worm gear drives and axles.

Hypax 80W-90 must not be used in automatic or power shift transmissions, hydrostatic drives or systems, which include the lubrication of, wet brakes and clutches.

Product Recommendations and Approvals

Hypax 80W-90 gear oil is recommended for complete refill and make-up of all passenger car, light duty and heavy-duty truck transmissions, conventional differentials and steering gears. It may also be used as make-up of limited slip type differentials. **Hypax 80W-90** meets the requirements of:

- ◆ Mil-PRF-2105E
- ◆ Mack GO-J
- ◆ API GL-5, MT-1
- ◆ Rockwell 0-76-D

Product Maintenance and Handling

Hypax gear oil is manufactured from quality petroleum base stocks, blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact with the skin, splashing into the eyes, ingestion, or vapour inhalation. Please refer to the Material Safety Data Sheet for further information.

Note: This product is NOT controlled under the Canadian WHMIS legislation.

Typical Properties

	Hypax 80W-90
Density @ 15 °C, kg/m ³	889
Colour	<3.0
Pour Point, °C	-27
Flash Point, °C	165
Viscosity Index	113
Kinematic Viscosity, cSt	
@ 40 °C	145
@ 100 °C	15.8
Brookfield Viscosity, cP	
@ -12°C	-----
@ -26°C	118,000
Channel Point, °C	<-35
Timken OK load, kg	29

The typical properties shown above are representative of current production. Some are controlled by manufacturing and performance specifications while others are not. All may vary within modest ranges.